

Equivalent fractions with models

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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Split each original part into 2 equal pieces. Keep the shaded amount the same.

Split each original part into 2 equal pieces: $2/6$.

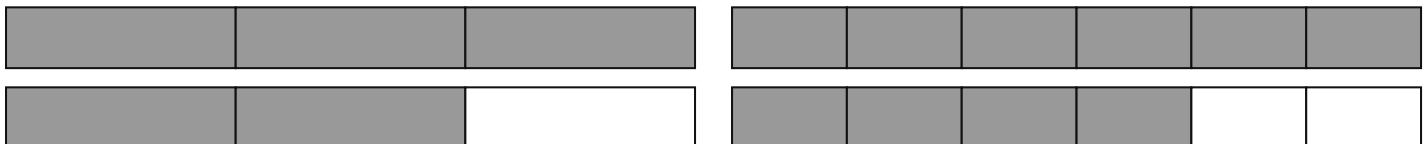
$1/3 = (1 \times 2)/(3 \times 2) = 2/6$. The whole and the shaded amount stay the same.



2. Write a fraction equal to $5/3$ with denominator 6.

$10/6$

$5/3 = (5 \times 2)/(3 \times 2) = 10/6$. The whole and the shaded amount stay the same.



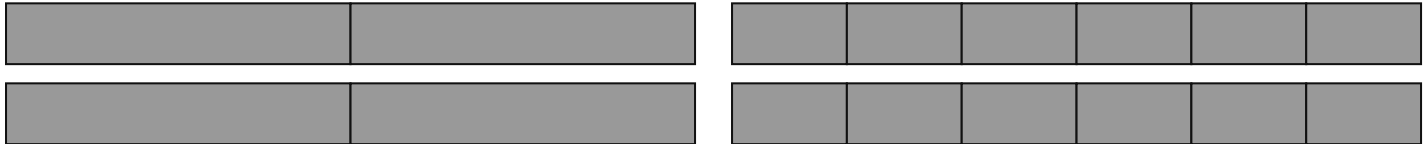
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3. Write a fraction equal to $\frac{4}{2}$ with denominator 6.

$\frac{12}{6}$

$\frac{4}{2} = (4 \times 3)/(2 \times 3) = \frac{12}{6}$. The whole and the shaded amount stay the same.



4. Write a fraction equal to $\frac{1}{2}$ with denominator 6.

$\frac{3}{6}$

$\frac{1}{2} = (1 \times 3)/(2 \times 3) = \frac{3}{6}$. The whole and the shaded amount stay the same.



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5. Write a fraction equal to $\frac{2}{2}$ with denominator 4.

$\frac{4}{4}$

$\frac{2}{2} = (2 \times 2)/(2 \times 2) = \frac{4}{4}$. The whole and the shaded amount stay the same.



6. Write a fraction equal to $\frac{2}{2}$ with denominator 8. Which reason would help you solve this correctly?

Each old part becomes 4 smaller equal parts. Change both numerator and denominator by the same factor.



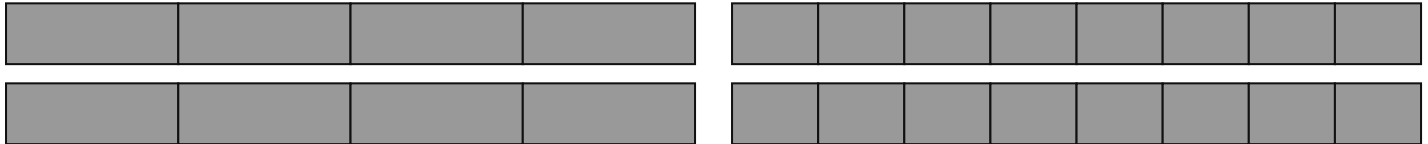
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7. A ribbon is $\frac{8}{4}$ meter long. Express that same length with denominator 8.

$\frac{16}{8}$

$\frac{8}{4} = (8 \times 2)/(4 \times 2) = \frac{16}{8}$. The whole and the shaded amount stay the same.



8. What fraction of the whole is shaded?

$\frac{1}{2}$

1 out of 2 equal parts are selected, so the fraction is $\frac{1}{2}$.

